09-27-04



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

That

re Application of:

Chiu Hung Luk, et al.

Attorney Docket: MAX-VIZ.201

Confirmation No: 5491

September 23, 2004

Serial No.:

10/828,742

Group #: 2878

Filed:

April 20, 2004

For:

Neural Net Based Processor for Synthetic Vision Fusion

Commissioner for Patents

P.O. Box 1450

Alexandria, Virginia 22313-1450

Sir:

Enclosed is the following INFORMATION DISCLOSURE STATEMENT for the above-identified Application:

Two (2) - U.S. Patent and Trademark Office Forms 1449A (Modified)

X No Additional Fee is Required.

A PTO Form 2038 credit card authorization in the amount of \$ to cover the \_\_\_\_\_ fee is enclosed.

X The Commissioner is hereby authorized to charge any deficiency of the following fees associated with this Communication, or credit any overpayment to Account No. 22-0258.

**Customer Number** 

Respectfully Submitted,

23855

ROBERT D. VARITZ, P.C.

Registration No: 31436

Telephone:

503-720-1983

Facsimile:

503-233-7730

Robert D. Varitz

2007 S.E. GRANT STREET

Portland, Oregon 97214

RDV:bd

enc.

## **CERTIFICATE OF EXPRESS MAILING**

"Express Mail" Mailing Label No. Date of Deposit - September 23, 2004 EN4259P54PPN2

I hereby certify that the attached Information Disclosure Statement and References are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. 1.10 on the date indicated above and is addressed to:

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

Robert D. Varitz

	OIPE	Ð					
1449A/FTO Rev. 1095	E SO	~ I	S. Department of Commerce Patent and Trademark Office	Complete If Known			
Patent and Trademark Office  2 3 2004  Patent and Trademark Office  Patent and Trademark Office				Application Number	10/828,742		
LIS	TAS PRIC	, PR A	RT CITED	Filing Date	April 20, 2004		
	BY APP	LIC	ANT	First Named Inventor	Chiu Hung Luk		
<b>.</b>		.4		Group Art Unit	2878		
(use as many sheets as necessary)				Examiner Name			
Sheet	1	of	2	Attorney Docket No.	MAX-VIZ.201		

	U.S. PATENT DOCUMENTS								
Examiner Initials			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Figures Appear				
		6,232,602	В1	Kerr	05-15-01				
		6,373,055	В1	Kerr	04-16-02				

FOREIGN PATENT DOCUMENTS									
Examiner Initials	Cite No.1	Foreign Patent Dcument			Name of Patentee or Applicant	Date of Publication of Cited Document	Pages, Columns, Lines, Where Relevant	T <sup>6</sup>	
		Office <sup>3</sup> Code <sup>5</sup>	Number⁴	Kind	of Cited Document	MM-DD-YY	Passages or Figures Appear		
							-		

OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS						
Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, country where published, source.					
		Gao, et al., Platform Performance Comparison of PALM Networks on a Pentium® 4 and FPGA, IJCNN03, July 2003.				
		Harrah et al., The NASA Approach to Realize a Sensor Enhanced Synthetic Vision System (SE-SVS), Proceedings of the 21st Digital Avionics Systems Conference, IEEE CH37325 (2002).				
		Kerr et al., New infrared and systems technology for enhanced vision systems, Max-Viz, Inc., public release (2002).				
		Murphy et al., High-sensitivity 25 µm microbolometer FPAs, Proc. SPIE: Infrared Detectors and Focal Plane Arrays VII, Vol. 4721, pp. 99-110 (2002).				
		NATO/RTA/SET Workshop on Enhanced and Synthetic Vision Systems, RTO-MP-107, Ottawa, Ontario (2002).				

	1	T
Examiner	Date	
Signature	Considered	

Examiner: Initial freference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1Unique citation designation number. 2See attached Kinds of U.S. Patent Documents. 3Enter Office that issued the document, by the two letter code (WIPO Standard ST.3). 4For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6Applicant is to place a check mark here if English language Translation is attached.

_	
П	
•	-

1449A/PTO Rev. 10/95			6. Department of Commerce Patent and Trademark Office	Complete If Known		
				Application Number	10/828,742	
LIS	ST OF PRIC	R A	RT CITED	Filing Date	April 20, 2004	
BY APPLICANT				First Named Inventor	Chiu Hung Luk	
				Group Art Unit	2878	
(1	use as many she	ets as	necessary)	Examiner Name		
Sheet	2	of	2	Attorney Docket No.	MAX-VIZ.201	

		OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, country where published, source.				
		Zhu et al., Simulation of Associative Neural Networks, International Conference on Neural Information Processing, Singapore (2002).			
		Korn et al., Navigation Integrity Monitoring and Obstacle Detection for Enhanced Vision Systems, Proc. SPIE: Enhanced and Synthetic Vision 2001, Vol. 4363, pp. 51-57 (2001).			
		Tiana et al., Multispectral uncooled infrared enhanced-vision system for flight test, Proc. SPIE: Enhanced and Synthetic Vision 2001, Vol. 4363, pp. 231-236 (2001).	•		
		Sharma et al., Bayesian sensor image fusion using local linear generative models, Soc. of Photo-Optical Engineering Instrumentation, vol. 40, SPIE, pp. 1364-1376 (2001).			
		Field, What is the Goal of Sensory Coding?, Sejnowski, Ed., Unsupervised Learning, Cambridge, MA, MIT Press, pp. 101-143 (1999).			
		Palm et al., Neural Associative Memories, C. Weems, Ed., Associative Processing and Processors, Los Alamitos, CA, IEEE Computer Society, pp. 307-326 (1997).			
		Palm et al., Associative Data Storage and Retrieval in Neural Networks, Domany et al., Eds., Models of Neural Networks III, New York, Springer, pp. 79-118 (1996).			
		Graham et al., Improving Recall from an Associative Memory, Biological Cybernetics, Vol. 72, Heidelberg, Springer-Verlag, pp. 337-346 (1995).			
,		Le Guilloux et al., Using imaging sensors for navigation and guidance of aerial vehicles, Proc. SPIE: Sensing, Imaging and Vision for Control and Guidance of Aerospace Vehicles, Vol. 2220, pp. 157-168 (1994).	_		
		Burt, A Gradient Pyramid Basis for Pattern-Selective Image Fusion, Society for Information Display International Symposium Digest, vol. 23, Society for Information Display, pp. 467-470 (1992).			
		Palm, On Associative Memory, Biological Cybernetics, Vol. 36, Heidelberg, Springer-Verlag, pp. 19-31 (1980).			
		BOOKS - Referenced by not supplied			
		Rolls et al., Computational Neuroscience of Vision, Oxford University Press (2001).			
		Jensen, Bayesian Networks and Decision Diagrams, New York, Springer, (2001).			

		T
Examiner Signature	Date Considered	

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

'Unique citation designation number. 'See attached Kinds of U.S. Patent Documents. 'Benter Office that issued the document, by the two letter code (WIPO Standard ST.3). 'For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 'Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 'Applicant is to place a check mark here if English language Translation is attached